

**Notice of Allowability**

Application No.

10/784,112

Applicant(s)

LIAO ET AL.

Examiner

Kevin K. Xu

Art Unit

2628

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10/6/07.
2. ☒ The allowed claim(s) is/are 1, 3-11, 13-18.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application                     |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                   |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|  | 9. <input type="checkbox"/> Other _____   |

## DETAILED ACTION

### *Allowable Subject Matter*

The following is an examiner's statement of reasons for allowance: Ewins (20020126133) teaches a similar method of mapping a target pixel needing texture in a texture array, a region of support in the texture array being defined by a long and a short axis and being generally elliptical and a level of detail being derived from the short axis (p. 1 paragraph 17- p. 2 paragraph 23, p. 2-3 paragraphs 35-41, Fig. 1A) and Ewins ("Mip-Map level selection for Texture Mapping") teaches a method of performing a filtering function using texels from higher resolution texture array to simulate a filtering effect of using texels from higher resolution texture array and a second texel array having lower resolution, wherein only one level of texture level is stored and used to generate the lower resolution texture array and wherein the step of performing a filtering function further comprises as using texels from the higher resolution texture array to derive texels of the lower resolution texture array. (p. 318, Section 1.1) Furthermore Perry (6292193) teaches LOD being derived only from the short axis (Col 8 lines 1-36) Nonetheless, no prior art references anticipate or suggest the limitations of wherein step of performing interpolation comprises **"interpolating the texels from the higher resolution texture array to form a first blended texel, interpolating texels from lower resolution texel array to form a second blended texel, wherein the sum of a first product,  $m \cdot T_{ab}$ , and a second product,  $(1-m) \cdot T_{cd}$  is formed, where  $m = 1/2U_f + 1/4$ , which indicates a coordinate position of the target pixel in the lower resolution texture array, and  $T_{ab}$  and  $T_{cd}$  are adjacent texels in the lower**

**resolution array and interpolation first blended and second blended texesl to arrive at a texture for the target pixel"** in combination with other claim limitations of independent claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Daniel McClure (Reg. No 38962) on November 8<sup>th</sup> 2007.

In the claim 16

Line 3, delete '**target pixel color =  $\square$  WSi\*ColorSi**' and after "following function," insert **--target pixel color =  $\sum$  Wsi\*ColorSi--** .

Line 4, delete ' **$\square$  Wsi= 1**' and after "wherein" insert **-- $\sum$  Wsi= 1--** .

#### **Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin K. Xu whose telephone number is 571-272-7747. The examiner can normally be reached on 8:30AM - 5:00 PM.

Art Unit: 2628

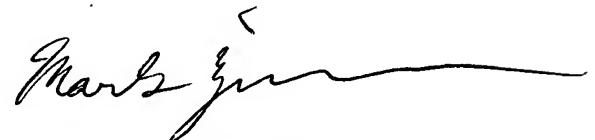
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Zimmerman can be reached on 571-272-7653. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

KX

Kevin Xu

11/8/07



MARK ZIMMERMAN  
SUPERVISORY PATENT EXAMINER  
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